## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 30 June 2005 (30.06.2005)

**PCT** 

## (10) International Publication Number WO 2005/059324 A1

- (51) International Patent Classification<sup>7</sup>: 3/035, 3/28
- F01N 3/023,
- (21) International Application Number:

PCT/GB2004/005225

(22) International Filing Date:

14 December 2004 (14.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0329095.4

16 December 2003 (16.12.2003) GB

- (71) Applicant (for all designated States except US): JOHN-SON MATTHEY PUBLIC LIMITED COMPANY [GB/GB]; 2-4 Cockspur Street, Trafalgar Square, London SW1Y 5BQ (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CHIFNEY, Andrew, Francis [GB/GB]; 4 Fanshawe Crescent, Ware, Harts SG12 0AS (GB). PHILLIPS, Paul, Richard [GB/GB]; 4 Fortune Way, Bassingbourn, Royston SG8 5YR (GB).

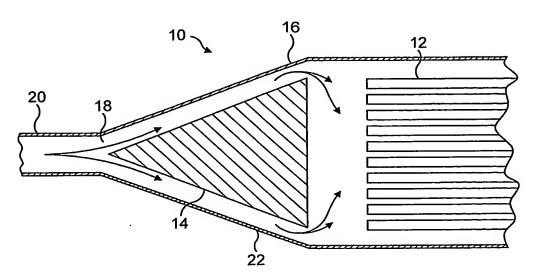
- (74) Agent: NUNN, Andrew, Dominic; Johnson Matthey Technology Centre, Blounts Court, Sonning Common, Reading RG4 9NH (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: EXHAUST SYSTEM FOR LEAN BURN ENGINE INCLUDING PARTICULATE FILTER



(57) Abstract: An exhaust system (10) for a lean burn internal combustion engine comprises a particulate filter (12) disposed between an inlet (18) and an outlet and means (14) for deflecting at least some exhaust gas flowing in the system away from entering the filter at a point immediately opposite the inlet.